YAROVENKO, V.L.; SKALKINA, Ye.P.; PYKHOVA, S.V.; LAZAREVA, A.W.

Continuous fermentation. Trudy TSNIISP no.6:3-8 '%. (MIRA 14:12) (Fermentation)

YAROVENKO, V.L.; SKALKINA, Ye.P.; PYKHOVA, S.V.; LAZAREVA, A.N.

Cyclic semicontinuous fermentation. Trudy TSNIISP no.6:9-14 '58.
(WIRA 14:12)

(Fermentation)

| Combined processing of potatoes into all Spirit.prom. 26 no.4:4-7 '60. (Potatoes) (Alcohol) (Starch) | lcohol and starch. (NIRA 13:8) |
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NAROVENTO, V.L.; SKALKINA, Ye.P.; PTKHOVA, S.V.; LAZAREVA, A.E.

Experience in introducing and developing the continuous method of fermentation in the processing of starchy raw materials.

Trudy TSHIISP no.743-16 '159.

(Fermentation) (Alcohol)

SKALKINA, Ye.P.; TAROVENKO, V.L.; PTKHOVA, S.V.; LAZAREVA, A.N.

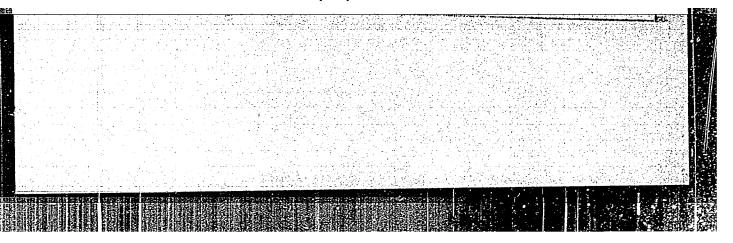
Multiplication of yeast cells and their distribution in the battery in a continuous fermentation process. Trudy TSHISP no.?:16-23 '59.

(Yeast) (Fermentation)

PYKHOVA, S.V.; YAROVMNKC, V.L.; SKALKINA, Ye.F.; IAZAREVA, A.N.

Use of the ether - aldehyde fraction as an antiseptic in the manufacture of alcohol. Trudy TSEIISP no.7:25-28 '59.

(Alcohol) (Antiseptics)



| Method for the cultivation of yeast at the Petrovskiy Industrial (MIRA 9:8) Alcohol Plant. Trudy VMIISP no.5:44-47 '55. (MIRA 9:8) (PetrovskiyYeast) | | | |
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3/0201/63/000/004/0107/0113

ACCESSION NR: AP4014233

GOREV,K.V.

AUTHOR: Goraw, K. V.; Pykhowski, Ya. P.

TITLE: Investigation of heat-resisting alloys with an iron base

SOURCE: AN BSSR. Izvestiya. Ser. fiz.-tekhn. nauk, no. 4, 1963, 107-113

TOPIC TAGS: heat-resisting austenitic alloy, iron base, quaternary alloy, protracted high temperature, incipient crystallization temperature, solid austenitic solution, heterophase area, tungsten, molybdenum, aluminum

ABSTRACT: Despite the considerable number of recent studies on heat-resisting austemitic alloys, the laws governing the change in their resistance according to composition and structure and the connection of heat resistance with state diagrams have not been sufficiently investigated, particularly for the composite metallic systems described by state diagrams with four or more components. Moreover, a number of systems have been studied without taking into account the effect of the melting point on heat resistance. The paper gives the results of a study of quaternary iron-base alloys with various

Card . 1/3 2

ACCESSION NR: AP4014233

admixtures of such elements as Co, W, Mo and Al, taking as a base the triple alloy Fe-Cr 15-Ni 30, which is stable at protracted high temperatures due to the high nickel content. The alloys were melted in a high-frequency induction furnace on a layer of basic slag, and reduced with manganese and powdered aluminum. The authors studied the dependence of the temperatures of incipient recrystallization upon the concentration of the alloying elements and the connection between the changes in heat resistance and those temperatures. According to the degree of their effect on the heat-resisting properties and the temperature of incipient recrystallization of the solid austenitic solution. the alloying elements may be arranged thus (in terms of the same atomic percentage); Co -> Al -> W -> Mo. The effect of the alloying elements in the heterophase areas adjacent to the solid solution depends upon the nature of the other phases, upon their propensity to coagulation. Tungsten. molybdemum and aluminum form other phases in which the diffusion processes are retarded, which considerably raises the heat resistance and shifts the temperature intervals of sufficient recrystallisation development to higher temperatures.

Card 2/3/

| (AutomobilesTransmission devices) | |
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PYRITEYEV.G.N. (Moscow)

Approximate solution of a one-dimensional problem on gas seepage in coal mines accounting for the change of the mining place. Inzh.sbor. no.21:189-194 '55.

1. Institut mekhaniki Akademii nauk SSSR.

(Coal mines and mining) (Mine gases)

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PYKHTEYEV, GIN.

USSR/Engineering - Civil' - Water Canals

FD-2921

Card 1/1

Pub. 41-2/17

Author

: Pykhteyev, G. N., Moscow

Title

: Seepage from a canal when there are two points of escape around

the irrigation gate.

Periodical

: Izv. AN SSSR, Otd. Tekh. Nauk 6, 16-21, June 1955

Abstract

: Discusses the pattern of flow, and the relative speed of flow of currents from a canal, which is blocked by a gate having vertical overflow seepage at both ends. The experiment deals with a very shallow canal, such as is used for irrigation, and the purpose of the study is to determine the patterns of erosion which could be expected in regions having sandy soil. Graphs

and formulae. Two references, both USSR.

Institution

Submitted

: January 17, 1955

PYKHTIN,P.I.; BREDA,V.N.; KOZHARINOV,B.I., tekhnolog

Assembly-line methods in preparing containers. Teks.prom.
15 no.6:38-40 Je '55. (MIRA 8:7)

1. Direktor mekhanicheskogo zavoda Tashkentskogo khlopchato-bumazhnogo kombinata imeni Stalina (for Pykhtin) 2. Machal'-nik otdela truda i zarplaty zavoda (for Breda).

(Box making)

PYKHTEYEV. G. H. USSR/mathematics - Incompressible fluid motion

FD-643

Card 1/1

: Pub. 85 - 10/12

Author

: Pykhteyev, G. N. (Moscow)

Title

: Determining the two-dimensional potential motion of an incompressible fluid from the assigned values of the direction of its

velocity

Periodical

: Prikl. mat. i mekh., 18, 379-380, May/Jun 1954

Abstract

: Sets up the equations of hydrodynamics and reduces them to the determination of the harmonic function satisfying a certain non-linear equation. Solves this equation. Notes that the problem of determining the flow from the given modulus of velocity was treated

by A. I. Nekrasov (PMM, 17, No. 4, 1953).

Institution

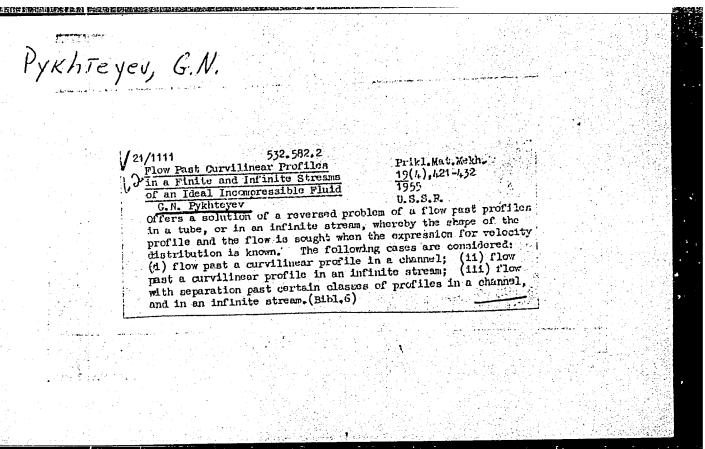
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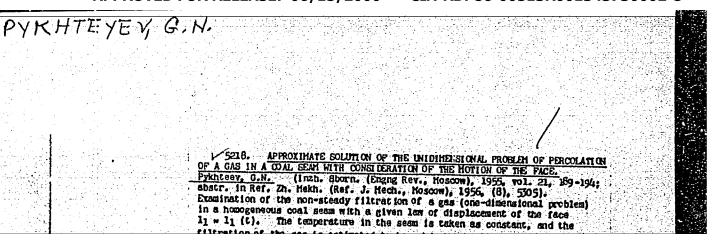
Submitted

October 23, 1953

"APPROVED FOR RELEASE: 06/15/2000

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Time in, G. T.

Pykhteyev, G. N.

"Some problems of the interruption in the flow of an ideal incompressible liquied around a curvilinear obstruction." Acad Sci USSR. Inst of Fechanics. Hoscow, 1956 (Dissertation for the degree of Candidate in Physicomathematical Science)

Knizanaya letopis' No. 25, 1956. Moscow

PYKHTEYEV, G.N.

SUBJECT

USSR/MATHEMATICS/Theory of functions CARD 1/2 PG - 488

AUTHOR PYCHTEJEV G.N.

TITLE

The solution of the inverse problem of the flow around a

plane curve with cavitation.

PERIODICAL

Priklad. Mat. Mech. 20, 373-381 (1956)

reviewed 1/1957

PARTICULAR OF THE PARTICULAR O

For the projection of turbine and pump-impeller vanes with high cavitation the form of the profile must be calculated from the given distribution of velocity. The author asserts that this problem, from the mathematical point of view, is an inverse boundary value problem for an analytic function W(z) which is defined on a two-lamellar Riemannian surface. This function possesses at indinity a pole and a logarithmic singularity on the one sheet and a logarithmic singularity only on the other sheet, where a two-lamellar solution is sought. The solution is found by introducing an auxiliary function, for the determination of which former results of Gachov are used. Furthermore conditions are investigated under which the obtained equations for contour and flow lines have a physical sense. Cavitation range and resistance of the contour are determined. The consideration of two special cases is made separately: 1) Let the distribution of velocity on the sought contour be

 $V = V_0 \frac{\operatorname{tg} \delta(s)}{\operatorname{tg} \delta(1)}$

where

 $C\delta + D \sin 2\delta = s$

(C.D - constants),

Priklad Mat. Mech. 20, 373-381 (1956)

CARD 2/2

PG - 488

2) the dependence of the velocity on the curve length is given in the parameter representation $V = V_0 P_1(u)$ s = $s_0 P_2(u)$, where u is a parameter variable in (u_1, u_2) and $P_1(u)$ and $P_2(u)$ are unique and positive and satisfy the Hölder condition; furthermore

$$F_1(u_1) - F_2(u_1) - 0$$

$$P_1(u_2) - P_2(u_2) - 1.$$

INSTITUTION: Moscow.

PYKHTEYEY (T.M.

CARD 1/2 USSR/MATHEMATICS/Theory of functions

((13) (13) PYCHTEJEV G.N.

A rigorous solution of Kirchhoff's problem concerning the flow around bodies with a separation lever for a family of curves,

Doklady Akad. Nauk 108, 34-37 (1956) COLUDICAL reviewed 11/1956

Our ves
$$L(m, M)$$
:

$$\frac{\cos^{\frac{m}{M}} L(m, M)}{m} \cot g M \int \frac{1 + \sqrt{1 - \cot g^2 M \cot^2 \frac{\pi - 2 \cdot N}{m}}}{(1 + \sin M \sqrt{1 - \cot g^2 M \cot^2 \frac{\pi - 2 \cdot N}{m}})^m} \frac{\cos \vartheta d \vartheta}{\cos^{\frac{m+2}{M}} \frac{\pi - 2 \cdot N}{m}}$$

$$\frac{1 + \sqrt{1 - \operatorname{otg}^2 \mu \operatorname{tg}^2 \frac{\pi - 2 \cdot k}{m}}}{(1 + \sin \mu \sqrt{1 - \operatorname{ctg}^2 \mu \operatorname{tg}^2 \frac{\pi - 2 \cdot k}{m}})^m} \frac{\sin \vartheta \, d \cdot \vartheta}{\cos^{m+2} \frac{\pi - 2 \cdot k}{m}}$$

are symmetric to the x-axis, pass through the origin and touch there the y-axis. For $0 < \mu < \frac{\pi}{2m}$ they are monotonely increasing. By the transformation $n = \frac{\pi}{2}$

... a arc tg (tg Acos 0) it is obtained that x and y are expressed by elementary or tabulated functions. The flow around these curves by an infinite current of an ideal, incompressible fluid can be rigorously solved by aid of the complex

Doklady Akad. Nauk 108, 34-37 (1956)

CARD 2/2 PG - 392

potential. If the curve is the flow line $\psi=0$ and if it is put $\phi=0$ in the critical point 0, while it is to be $\phi=\phi_0$ in the separation points symmetric to the x-axis, then the domain of the complex potential $u = \psi + i \psi$ is a plane with a section along the real half-axis o . For the solution an analytic function χ (w) = $\frac{dx}{dw}$ must be found which satisfies the conditions χ (0) = ∞ ; χ (∞) = $\frac{1}{V_{\infty}}$; arg χ = 0 for ψ = 0, $-\infty \le \varphi \le \varphi_0$; $|\chi| = \frac{1}{V_{\infty}}$ for ψ = 0, $\varphi_0 \le \varphi \le \varphi_0$; $\frac{d}{dt} (arg \chi) = K(arg \chi) \text{ for } \psi = 0, \ 0 \le \psi \le \psi_0 \ (K = \text{curvature of L}). \text{ Such a}$

pastion is given by $\frac{dz}{dr} = \frac{1}{V_{\infty}} \frac{\sqrt{\varphi_0} - 1\sqrt{\pi - \varphi_0}}{\sqrt{\pi}} \left[\frac{\sqrt{\varphi_0} - 1 \operatorname{tg} \frac{A}{2} \left(\sqrt{\pi} - \sqrt{\pi - \varphi_0}\right)}{\sqrt{\varphi_0} + 1 \operatorname{tg} \frac{A}{2} \left(\sqrt{\pi} - \sqrt{\pi - \varphi_0}\right)} \right]^{\frac{1}{12}}.$

The equations of the flow lines are derived and an expression for the resistance of the bow is given. Special formulas are presented for the case m = 1.

AUTHOR TITLE

PA - 2206 PYKHTEYEV, G.N. The Determination of the Hydrodynamic Reactions on the Occasion of a Flow round a Curvilinear Arc, Accompanied by Stripping, according to KIRCHOFF's Scheme (Opredeleniye gidrodinamicheskikh reaktsij pri otryvnom

obtekanii krivolineynoy dugi po skheme Kirkhgofa).

PERIODICAL

Prikladnaia Matematika i Mekhanika, 1957, Vol 21, Nr 1, pp 49-56(U.S.S.R.) Reviewed 4/1957 Received 3/1957

ABSTRACT

On the basis of methods developed by V.V.GOLUBEV the present paper shows that for the determination of the moment of the hydrodynamic force acting on a curvilinear arc (on which a flow occurs round the arc to the accompaniment of the stripping off of the jet), it is necessary to know only three coefficients in the corresponding decomposition of the function χ = dz/dw. First the investigations carried out by V.V.GOLUBEV are discussed in short. In this connection a perfect incompressible liquid is assumed to flow round an assumed curvilinear arc L according to KIRCHOFF's scheme. On the occasion of this flow round the arc L, which is accompanied by stripping, the component of compressive force is determined according to JOUKOVSKY's theorem. For the moments of the compressive force t with respect to the coordinate origin of coordinates a formula is given. Next, decomposition of the function χ in the w-plane and several theorems are dealt with. This decomposition is here written down for any point located on the jet and is several times transformed by differentation and various substitutions. Several theorems by V.V.GOLUBEV are then given, after which an equation for the line of application of the force is derived.

Card 1/3

PA = 2206

The Determination of the Hydrodynamic Reactions on the Occasion of a Flow round a Curvilinear Arc, Accompanied by Stripping, according to KIRCHOFF's Scheme.

For the determination of the moment of the force P and its line of application it suffices to know three coefficients in the corresponding decomposition as well as one constant which occurs after integration of this decomposition. The next chapters deal with the osculation curve of the line of application of the force P for the case of a modification of the angle of application or of the angle of deviation and the flow round a plate which is inclined towards the flow in accordance with KTRCHOFF's scheme. All existing methods for the solution of problems of the jet-like flow round a curvilinear obstacle are based on the fact that solution is sought in a certain auxiliary plane . A certain auxiliary function & (f is used on this occasion which contains the JOUKOVSKIJ function ln(V-1dw/dz) in itself. The development of the function ϕ (\S) is determined, after which it is shown that it is possible, if this decomposition is known, to determine the influence exercised by the flow on the body by means of the formulae found by the present paper. In conclusion the connection between the development coefficients of the functions $\chi(w)$ and $\Phi(f)$ is dealt with. (h illustrations)

Card 2/3

PA - 2206

The Determination of the Hydrodynamic Reactions on the Oceasion of a Flow round a curvilinear Arc, accompanied by Stripping, according to KIRCHOFF's Scheme.

ASSOCIATION

Institute for Mechanics of the Academy of Science of the U.S.S.R.

PRESENTED BY

SUBMITTED

9. 12. 1955

AVAILABLE

Library of Congress

Card 3/3

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PA = 3129The Flow Round A Given Obstacle Accompanied by Stripping (According to KIRCHHOFF'S) Of A Family Of Curves In A Limited Flow.

(Otryvnoye obtekaniye po skheme KIRKHGGFA odnogo semeystva krivykh v ogranichennom potoke, -Russian) Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 3, pp 513-516 (U.S.S.R.)

PERIODICAL

Received 6/1957 Closed solutions of the problem of the flow round a given obstacle limi-ABSTRACT

ted by two parellel walls of a perfect incompressible liquid (accompanied by stripping and in accordance with Kirchhoff's scheme) have hitherto been available only for plates and wedges. The present paper supplies an exact solution of this problem in closed form for a certain two-parametric family of curves. First, the rather voluminous equations of the curve (here called curve L(m,(u, E)) are given. By going over to a new variable it is possible to simplify the equation of the curve L(m, le, E). The curve L(m, (11, E) is symmetric with respect to the x-axis, it passes through the origin of coordinates, on which occasion it touches the y-axis. With OKMK $\pi/2m$ this curve increases monotonously and at $\mu = 0$ it becomes a straight line which agrees with the y-axis.

The author then studies the problem of the flow round the curve $L(m_{\chi}u, \epsilon)$ (accompanied by stripping) of the plane flow of a perfect incompressible liquid in a channel, having the width H, in accordance with Kirchhoff's scheme. Selection of the flow line ψ = 0 is described. Owing to symmetry

Card 1/2

AUTHOR

TITLE

The Flow Round A Given Obstacle Accompanied by Stripping PA - 3129 (According to KTRCHHOFF'S) Of A Family Of Curves In A Limited Flow.

it suffices to investigate only that part of the flow which is above the x-axis. In order to solve the problem it is sufficient to determine the function $\chi(w) = \ln((dz/dw)V_0)$, which is analytical within a certain stripe and which must satisfy certain conditions written down here. The authoralso gives the expression for ψ . The sulution of the problem is then explicitly written down. As an example the flow round the curve $L(1,\mu,\ell)$ is computed.

In conclusion the behavior of the curves in the case of $\mathcal{U}/n/2m$ is discussed. The shape of the curves $L(m, \mathcal{U})$ and of the jet changes with a change of the parameters m and \mathcal{U} as also the shape of the curves $L(m, \mathcal{U}, \mathcal{E})$. (with 1 illustration)

ASSOCIATION PRESENTED BY SUBMITTED Institute for Mechanics of the Academy of Science of the U.S.S.R.

PRESENTED BY NEKRASOV A.I., Member of the Academy

5.10.1956

Library of Congress

AVAILABLE Card 2/2

5/0199/63/004/004/0845/0861

AP3004304 ACCESSION NR:

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AUTHOR: Py*khteyev, G. N. TITLE: Solution of one mixed boundary-value problem with displacement and inversion formulas for certain singular integral equations of the

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 4, no. 4, 1963, 845-861

TOPIC TAGS: mixed boundary value problem, inversion formula, singular integral equation, first kind integral equation, displaced boundary condition, cavitation flow, Volterra problem

ABSTRACT: The following problem, called the Vi problem, is investigated: On the real axis four points a < d < c < b are given, and on the intervals [- ϕ , a]U[b, ϕ], [d,c], [c,b], the corresponding three real functions $\phi(x)$, $\psi(x)$, $\phi(x)$ are defined, of which $\phi(x)$ establishes a one-to-one correspondence between the points of intervals [c,b] and [d,c]. On the upper half-plane z = x + iy an analytic function F(Z) bounded at infinity and continuous on the real axis is to be determined from the following boundary conditions:

Card 1/132

ACCESSION NR: AP3004304

ReF(x) = $\Phi(x)$ (-= ϵ x ϵ a, b ϵ x ϵ =),

ImF(x) = $\Psi(x)$ (d ϵ x ϵ c),

 $F_{ad}(\phi(x)) = F_{cb}(x) + 2\gamma (c \leq x \leq b),$

 $F_{cb}(\Psi(x)) = F_{ad}(x) - 2\gamma (a \le x \le d),$

where $\psi(\phi(\mathbf{x})) = \mathbf{x}$ (inverse function), γ is a real constant and the notations F_{ad} and F_{cb} signify the boundary values of $F(\mathbf{x})$ on the intervals [a,d] and [c,b], respectively. The problem defined arises in connection with plane cavity flow and is similar to the Volterra problem (called the V problem). When functions $\phi(\mathbf{x})$, $\psi(\mathbf{x})$, and $\phi(\mathbf{x})$ satisfy certain conditions, the solution of the V_1 problem is reduced to the singular solution of an integral equation of the first kind. Contitions are established under which this integral equation can be reduced to a well-known form. Theorems are proved establishing conditions under which the problem V_1 has a unique solution. An exact solution of the derived integral equation is presented for cases when

Cord 2/13

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| 76 formulas. | | 는 경기에 발한되는 기계 기술이 되었다. 그 기술하였다. 그는 되는데 하는 경기를 하게 되었다. 그렇게 된 영화를 보았다. | | |
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L 1991-66 EWT(d) IJP(c) ACCESSION NR: AP5023881

UR/0199/65/006/004/0900/0917 517.948.32/.33

AUTHOR: Pykhteyev. G. N.

TITIE: Solution of a translated Dirichlet problem and of certain singular integral equations of the final problem. singular integral equations of the first kind

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 6, no. 4, 1965, 900-917

TOPIC TAGS: Dirichlet problem, boundary value problem, singular integral equation

ABSTRACT: The "translated" Dirichlet problem is to find a function F, analytic in the upper half-plane, bounded at infinity, and having a given real part on the real axis, except on an interval [a,b] = [a,c] + [c,b], on which is given the sum of the complex values of F to be taken at corresponding points of the partial intervals. There is a twice differentiable, monotone decreasing map of [c,b] onto [a,c], in terms of which the boundary conditions are expressed. The given functions are assumed to satisfy a Hölder condition and to approach 0, as $|x| \to \infty$, at least as fast as $1/|x|^{\alpha}$ (6>0). The solution is given in closed form, both for the case of continuous boundary values

Card 7/2

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| L 1991-66 ACCESSION NR: AP502388 | 1 | | 0 |
| (1) and for the case of the problem is transfor first kind, which in tu equation." (Two transf unique in case (1) and Several concrete examples: 89 formulas. | rn is written as a cormation methods a | "complete si re given.) T | ngular he solution is nt in case (2). |
| ASSOCIATION: None. | | | |
| SUBMITTED: 28Sep63 | ENCL: 00 | SVE | CODE: MA |
| NR REF SOV: 007 | OTHER: OOL | | |
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L 32189-66 EWT(1)/EWP(m) WW

ACC NR: AP6013925

SOURCE CODE: UR/0207/66/000/002/0072/0086

AUTHOR: Pykhteyev, G. N. (Novoai binh)

52

ORG: none

1

TITLE: Methods for solving a nonlinear integrodifferential equation for the theory of ideal fluid jets

SOURCE: 'Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1966, 72-86

TOPIC TAGS: jet flow, nonlinear integral equation, liquid flow, ideal fluid

ABSTRACT: The author develops methods for solving the equation:

 $u'(\xi) = \lambda \gamma(\xi) U(u(\xi) + \alpha(\xi)) V(-T(u|\xi) + \beta(\xi)) + \delta(\xi), \quad \xi = [-1,1](A)$

where $\alpha(\xi)$, $\beta(\xi)$, $\gamma(\xi)$, $\delta(\xi)$, $U(u+\alpha)$, $V(-T+\beta)$ are given functions of their arguments, λ is a given parameter and $T(u|\xi)$ is a singular integral of the form

$$T(u|\xi) = \frac{\omega(\xi)}{\pi} \int_{-1}^{1} \frac{u(t)}{t - \xi} \frac{dt}{\omega(t)}, \quad \xi' = [-1, 1]$$
 (0.1)

Card 1/2

L 32189-66 ACC NR: AP6013925

The proposed methods are applied to jet flows along a curved wall and to jet flows of a heavy liquid with rectilinear boundaries. The limits of applicability for these methods are discussed. The majorant equations for the two classes of jet flow have the same form. In order to use these methods effectively, exact and approximate methods for computing the given integrals must be developed. Orig. art. has: 3 figures, 3 tables, 57 formulas.

SUB CODE: 20,12/ SUBM DATE: 06Nov64/ ORIG REF: 009/ OTH REF: 001

Card 2/2 MC

| L 31093-66 EWT(d) LJP(c) ACC NR: AP6022812 SOUNCE CODE: CZ/0026/65/010/004/0351/0373 |] |
|---|---|
| AUTHOR: Pykhteyev. G. N. | |
| Org: Institute of Hydrodynamics, Siberian Department, AN SSSR, Novosibirsk (Institut gidrodinamiki Sibirskogo otdeleniya AN SSSR) TITLE: Exact methods for evaluation of Cauchy type integrals on an unclosed contour | |
| | |
| SOURCE: Aplikace matematiky, v. 10, no. 4, 1965, 351-373 | |
| TOPIC TAGS: analytic function, mathematic analysis, integral function | |
| ABSTRACT: The following methods are suggested in the paper for evaluation of certain integrals. Inside the circle in the 3-plane the so-called representing function of the integrals F(3) is found. Then the integrals are evaluated by the formulas given, whose form depends on the class in which the representing function is obtained. Three cases are considered in the paper: 1) the representing function F(3) is analytic in the circle; 2) F(3) is meromorphic, and 3) F(3) is the logarithm of a meromorphic or analytic function. Four different methods are given for the construction of the representing function F(3). | |
| Orig. art. has: 83 formulas. GPRS7 | |
| SUB CODE: 20, 12/ SUBM DATE: 03Feb64/ SOV REF: 008 | |
| Card 1/1 0 0 0915 0792 | |

PYKHTEYEV, G.H. (Novosibirsk)

"Nonlinear boundary value problems of the jet theory and some methods of their solution"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mochanics, Moscow 29 Jan - 5 Feb 64.

5/044/62/000/003/016/092 3300 THOR: Pykhteyev, G. N.

TITLE: On two representations of a function which is analytic in

the upper half-plane

PERIODICAL: Referativnyy zhurnal, Matematika, no. 3, 1962, 30, 31, abstract 3B137. ("Probl. mekhaniki sploshn. sredy", M.,

AN SSSR, 1961, 310-317)

TEXT: The author designates the function

 $f^{(s)}(x) = \left\{\frac{d^s}{d\theta^s} \left[f(\cos\theta)\right]\right\}_{\theta = \arccos x}$

as the trigonometric derivative of order s of the function f(x). Let $I(2k) \begin{bmatrix} E_{2k}; -1,1 \end{bmatrix}$ denote the class of functions defined on [-1,1]

and satisfying the following conditions: 1) they have trigonometric derivatives up to order 2k-1 which are continuous everywhere on $\begin{bmatrix} -1, 1 \end{bmatrix}$ except at the point x = 0; 2) they have bounded derivatives of order 2k:

 $|f^{(2k)}(x)| \leq x_{2k};$

Card 1/3

S/044/62/000/003/016/092 C111/C222

On two representations of a function ... C111/C222

3) the functions and their trigonometric derivatives have jumps of the first kind at x=0. The following problem is considered. Determine first kind at x=0. The following problem is considered. Determine an approximate analytic representation for a function $\psi(x)$ [$\psi(x)$] at infinity] which satisfies the following mixed boundary conditions on the real axis: which satisfies the following mixed boundary conditions on the real axis: Re $\psi(x) = 0$ for $|x| \ge 1$, $\psi(x) = f_1(x) + if_2(x)$ for $|x| \le 1$, where $f_1(x)$ and $f_2(x)$ are given functions of class $\psi(x) = 0$. Calculately, $\psi(x) = 0$ for $|x| \ge 1$, $\psi(x) = 0$ for $|x| \ge 1$,

Given are two represents
$$c(z) = \sum_{s=1}^{k} a_s \chi_s(z) + \sum_{m=1}^{n} \frac{b_m}{(z+\sqrt{z^2-1})^m} + \phi(\infty) + R_n(z)$$

The functions $\{\chi_g(z)\}$ are expressed by series of powers of x and of Chebyshev polynomials, introduced and tabulated by the author (Rzh. Mat., 1961, 12B246). The coefficients $\{a_g\}$ are expressed by the values of the functions $\{a_g\}$ and $\{a_g\}$ are points $\{a_g\}$ and $\{a_g\}$ are expressed by the jumps the functions $\{a_g\}$ and $\{a_g\}$ and $\{a_g\}$ are expressed by the jumps $\{a_g\}$ and $\{a_g\}$ and $\{a_g\}$ and $\{a_g\}$ are expressed by the author (Rzh. Mat., Ma

5/044/62/000/003/016/092

made either only by $f_1(x)$ and its trigonometric derivatives (1st representation), or only by $f_2(x)$ and its trigonometric derivatives (2nd representation) at x=0. The coefficients b depend, further, on the Fourier coefficients of the expansion of $f_1^m(x)$ in terms of Chebyshev polynomials $U_{\gamma}(x)$ (1st representation), or the expansion of $f_{\gamma}(x)$ in terms of Chebyshev polynomials T, (x) 2nd representation). An estimate of order SM_{2k} in n/n^{2k} is given for the remainder $R_n(x)$ (a more exact expression is given). To arrive at the approximate representation, the author uses the known rigorous representation (Muskhelishvili, N. I., "Singulyarnyye integral'nyye uravneniya" [Singular Integral Equations]; Gakhov, I. D. (Rzh. Mat., 1961, 8B104K)), into which he then substitutes a representation of the function of class W(2k) [M2k; -1,1] found earlier by the author (cf. mentioned review). Abstracter's note: Complete translation.

On two representations of a function ...

Card 3/3

| l. Institut gidrodinamiki Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom P.Ya.Kochinoy. (Integrals) | | | | kernel. | Dokl. A | calculating on SSSR 140 no. | | | | |
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GUREVICH, M.I.; PYKHTEYEV, G.N.

更多是是**在**在14日的经验,各种产品的基础。1985年的经验的1984年

Approximate solution to the problem of the flow of a heavy ideal incompressible liquid emerging from under a shield. PMTF no.2: (MIRA 14:6) 3-14 Jl-Ag 60. (Hydrodynamics)

PYKHTEYEV, G. N., GUREVICH, M.J. (Moscow)

"On the Problem of Flow Through a Gate."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

| The state of the s | G.N. (Moskva) Cavitation flow of an ideal noncompressible liquid in a cavitation flow of an ideal noncompressible liquid in a cavitation flow of an ideal noncompressible liquid in a cavitation flow of an ideal noncompressible liquid in a (MIRA 13:6) |
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| | (Cavitation) (Fluid dynamics) |
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| | 그 하는 일 그리는 얼마나 하고 있다. 하는 일이 하는 이 소설하셨다. 이 바쁜 한 하는 글 |
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| 主要的 交流。 (1) | 으로 되는 것으로 가장 있다. "'(1945년 등 교육회에서 대한 대회교육)를 보고 있습니다. "현존 경험 기계 (1945년 등 기계 |
| | 그는 사람들이 맛있다면 하루를 눈이들어 가득하는 말을 받는 것이 되었다는 것이다. |
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| | 이 가을 살아 하다면 살아보고 하다는 것이 아니는 것이 살아 있다면 하는데 그 사람이 없다. |
| | 고양을 하다면 얼마나 되었다. 전에 사는 이름 모양이 있다는 그는 그들이 그들이 그린 |
| | 그는 바다들은 그 경험을 다고 말을 다른 사람들이 되는 사람들이 되는 것이 하는 것이 되었다. 바다 하는 사람들이 되어 되는 것이 없는 것이다. |

Calculating singular integrals with a Cauchy-type nucleus by means of some special functions. Inzh.sbor. 31:240-2 53 161.

1. Institut mekhaniki AN SSSR. (Integrals) (Functional analysis)

16.4500 16,3000

s/020/61/140/003/004/020 c111/c222

AUTHOR :

Pykhteyev, G. N.

TITLE:

An exact method for evaluating certain integrals with a

Cauchy type kernel

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 140, no. 3, 1961,

536-539

TEXT: The author gives a method for the rigorous calculation of the integrals

$$J(x) = \frac{1}{\pi} \int_{-1}^{1} \frac{f(t)}{t - x} dt \quad (-1 < x < 1); \tag{1}$$

$$I(x) = \frac{\sqrt{1-x^3}}{\pi} \int_{-1}^{1} \frac{f(t)}{t-x} \frac{dt}{\sqrt{1-t^3}} \quad (-1 \leqslant x \leqslant 1). \tag{2}$$

$$G(x) = \frac{1}{\pi} \int_{-1}^{1} \frac{f(t)}{t-x} dt \quad (1 \leqslant x \leqslant \infty); \tag{3}$$

$$G(x) = \frac{1}{\pi} \int_{-1}^{1} \frac{f(t)}{t - x} dt \quad (1 \le x \le \infty);$$
 (3)

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28725 S/020/61/140/003/004/020 C111/C222

An exact method for . . .

$$E(x) = \frac{\sqrt{x^2 - 1}}{\pi} \int_{-1}^{1} \frac{f(t)}{t - x} \frac{dt}{\sqrt{1 - t^2}} \quad (1 \le x \le \infty). \tag{4}$$

The method is based on the theorem: Let $F(\frac{1}{n})$, $\frac{1}{n} = \frac{n}{n} + \frac{1}{n}$, be analytic in $\frac{1}{n} = \frac{1}{n} + \frac{1}{n}$, and satisfy the condition

Im
$$F(S) = 0$$
 for $\eta = 0$. (5)

Then there hold the relations

$$J(x) = \frac{1}{\pi} \int_{-1}^{1} \frac{\operatorname{Im} F(t - i\sqrt{1 - t^{2}})}{t - x} dt = \operatorname{Re} F(x - i\sqrt{1 - x^{2}}) - F(0)$$

$$(-1 \le x \le 1); \tag{6}$$

Card 2/6

$$I(x) = \frac{\sqrt{1-x^{3}}}{\pi} \int_{-1}^{1} \frac{\operatorname{Re} F(t-t\sqrt{1-t^{3}})}{t-x} \frac{dt}{\sqrt{1-t^{3}}} = -\operatorname{Im} F(x-t\sqrt{1-x^{3}})$$

$$(-1 \le x \le 1); \qquad (7)$$

$$G(x) = \frac{1}{\pi} \int_{-1}^{1} \frac{\operatorname{Im} F(t-t\sqrt{1-t^{3}})}{t-x} dt = F(x-\sqrt{x^{3}-1}) - F(0) \quad (1 \le x \le \infty); (8)$$

$$E(x) = \frac{\sqrt{x^{3}-1}}{\pi} \int_{-1}^{1} \frac{\operatorname{Re} F(t-t\sqrt{1-t^{3}})}{t-x} \frac{dt}{\sqrt{1-t^{3}}} = -F(x-\sqrt{x^{3}-1})$$

$$(1 \le x \le \infty). \qquad (9)$$

$$G(x) = \frac{1}{\pi} \int_{-1}^{1} \frac{\text{Im } F(t-t\sqrt{1-t^{2}})}{t-x} dt = F(x-\sqrt{x^{2}-1}) - F(0) \quad (1 \le x \le \infty); \ (8)$$

$$E(x) = \frac{\sqrt{x^{3}-1}}{\pi} \int_{-1}^{1} \frac{\operatorname{Re} F(t-t\sqrt{1-t^{3}})}{t-x} \frac{dt}{\sqrt{1-t^{3}}} = -F(x-\sqrt{x^{3}-1})$$

$$(1 < x < \infty). \tag{9}$$

Choosing e. g. $F(S) = arc tg (S tg \frac{\alpha}{2})$ then one obtains the integrals

$$\frac{1}{n} \int_{-1}^{2} \frac{1}{1-x} \ln \frac{1-\sqrt{1-t^2} \sin \alpha}{1+\sqrt{1-t^2} \sin \alpha} dt = 2 \arctan(x \log \alpha) \quad (-1 < x < 1);$$

Card 3/6

28725 s/020/61/140/003/004/020 c111/c222

An exact method for .

$$\frac{\sqrt{1-x^{3}}}{\pi} \int_{-1}^{1} \frac{\arctan tg(t tg \alpha)}{t-x} \frac{dt}{\sqrt{1-t^{3}}} = -\frac{1}{2} \ln \frac{1-\sqrt{1-x^{3}} \sin \alpha}{1+\sqrt{1-x^{4}} \sin \alpha} \quad (-1 < x < 1);$$

$$\frac{1}{\pi} \int_{-1}^{1} \frac{1}{t-x} \ln \frac{1-\sqrt{1-t^{3}} \sin \alpha}{1+\sqrt{1-t^{4}} \sin \alpha} dt = 4 \arctan tg((x-\sqrt{x_{2}-1}) tg \frac{\alpha}{2}).$$

$$(1 < x < \infty);$$

$$\frac{\sqrt{x^{3}-1}}{\pi} \int_{-1}^{1} \frac{\arctan tg(t tg \alpha)}{t-x} \frac{dt}{\sqrt{1-t^{3}}} = -2 \arctan tg((x-\sqrt{x^{3}-1}) tg \frac{\alpha}{2}).$$

$$(1 < x < \infty).$$

which appear for the flow around of curvilinear hindrances (cf. (Ref.7: G. N. Pykhteyev, DAN, 108, no. 1, 1956)). Choosing

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$$S/020/61/140/003/004/020$$

$$S/020/61/140/003/004/020$$

$$S(111/0222)$$

$$F(\S) = \frac{1}{\Re} \cdot (\S - \frac{1}{\S}) \int_{0}^{\infty} \ln \frac{1+t}{1-t} \cdot \frac{dt}{t} \quad \text{then one obtains}$$

$$\frac{1}{\pi} \int_{-1}^{1} \frac{V(-1) \arcsin t}{t-x} dt = \frac{4}{\pi} V(1-x^2) \left[L(\frac{\pi}{2}) - L(u(x)) - L(\frac{\pi}{2} - u(x)) \right] - \frac{2}{\pi} \cdot (-1 < x < 1),$$

$$\frac{1}{\pi} \int_{-1}^{1} \frac{L(u(t)) + L(\frac{\pi}{2} - u(t)) - L(\frac{\pi}{2})}{t-x} dt = \frac{\pi}{4} \arcsin x \quad (-1 < x < 1);$$

$$\frac{1}{\pi} \int_{-1}^{1} \frac{V(-1)^2 \arcsin t}{t-x} dt = \frac{2}{\pi} V x^3 - 1 N(u(x)) - \frac{2}{\pi} \quad (1 < x < \infty);$$

$$\frac{1}{\pi} \int_{-1}^{1} \frac{L(u(t)) + L(\frac{\pi}{2} - u(t)) - L(\frac{\pi}{2})}{t-x} dt = \frac{1}{2} N(v(x)) \quad (1 < x < \infty). \quad (15)$$

$$\operatorname{Card} 5/6$$

28725 S/020/61/140/003/004/020 C111/C222

An exact method for . ln cos $\varphi d \varphi$ (0 $\leq u \leq \frac{\pi}{2}$) and N(v) = $\int_{0}^{1} \ln \frac{1+t}{1-t} \frac{dt}{t}$

(0 ≤ v ≤ 1). These integrals appear in (Ref. 8: S. J. Parkhomovs'kiy, Prikl. mekh. AN URSR, 4, no. 4, 1958). There are 7 Soviet-bloc and

1 non-Soviet-bloc reference. ASSOCIATION: Institut gidrodinamiki Sibirskogo otdeleniya Akademii nauk

SSSR (Institute of Hydrodynamics of the Siberian Branch

of the Academy of Sciences USSR)

April 19, 1961, by P. Ya. Kochina, Academician PRESENTED:

April 5, 1961 SUBMITTED:

Card 6/6

124-1957-1-464 D

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 58 (USSR)

AUTHOR: Pykhteyev, G.N.

Some Problems of the Stalled Flow of an Ideal Incompressible Fluid TITLE:

Past a Curvilinear Obstacle (Nekotoryye zadachi otryvnogo obtekaniya krivolineynogo prepyatstviya potokom ideal'noy

neszhimayemoy zhidkosti)

Bibliographic entry on the author's dissertation for the degree ABSTRACT:

of Candidate of Physico-Mathematical Sciences, presented to the In-t mekhan. AN SSSR (Institute of Mechanics, USSR Academy of

Sciences), Moscow, 1956

ASSOCIATION: In-t mekhan. AN SSSR (Institute of Mechanics, USSR Academy of Sciences), Moscow

1. Liquids--Flow--Analysis

Card 1/1

16.7600

77995 SOV/40-24-1-23/28

AUTHOR:

Pykhteyev, G. N. (Moscow)

TITLE:

Cavitational Flow of a Perfect Noncompressible Fluid

in a Slot

PERIODICAL:

Prikladnaya matematika 1 mekhanika, 1950, Vol 24,

Nr 1, pp 157-161 (USSR)

ABSTRACT:

Using conformal mapping methods, the author solves the problem of plane cavitational flow of a perfect noncompressible weightless fluid in an infinitely long slot. This is a generalization of the flow in a Borda mouthpiece. The dependence of the relative cavity

length and the flux compression coefficient

$$\lambda = \frac{1}{H}, \qquad e = 1 - \frac{h}{H} \tag{1.1}$$

Card 1/3

Cavitational Flow of a Perfect Noncompressible Fluid in a Slot

on the dimensionless cavitation numbers κ_1 and κ_2 given by

$$\varkappa_{1} = \frac{p_{1} - p_{0}}{1/2pV_{1}^{2}}, \qquad \varkappa_{2} = \frac{p_{2} - p_{0}}{1/2pV_{2}^{2}}$$
 (1.2)

is determined. Here, p_0 is the pressure inside the cavity and V_0 is the (constant) velocity on the boundary of the cavity; p_1 and p_2 are the pressures at infinity in front of the slot and in the slot, respectively. V_1 and V_2 are the velocities at infinity of the incoming stream and the stream in the slot, respectively. H is the width of the slot, f is the horizontal distance between the points on the cavity boundary farthest to the right and left, and h is the distance

Card 2/3

Cavitational Flow of a Perfect Noncompressible Fluid in a Slot

77995 SOV/40-24-1-23/28

of the lowermost point on the cavity boundary from the upper (horizontal) wall of the slot. By a suitable mapping of the domain of the complex potential W = W(z)and by solving a boundary value problem, the author obtains formulas for W and z in terms of the total fluid discharge, a complex variable ζ , and the parameters of the flow. From this, he gets the equation of the free discharge, a complex variable boundary which possesses two tangents perpendicular to the walls and one tangent parallel to the wall. This is then used to determine the relative cavity length and compression coefficient. For certain parameter values, these results are shown to reduce to (a) the flow through an infinitely long slot with a finite cavity of a fluid which is at rest at infinity; (b) the flow through an infinitely long slot with the fluid moving at infinity; and (c) the flow through a Borda mouthpiece. There are 5 figures; and 6 references, 1 German, 1 U.S., and 4 Soviet. The U.S. reference is: D. Gilbarg, D. H. Rock, Naval Ordnance Laboratory Memo 8718, 1945. July 21, 1959

SUBMITTED:

18765

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S/040/60/024/006/019/024 C 111/ C 333

AUTHOR: Pykhteyev, G. N. (Novosibirsk)

TITLE: On the Calculation of Some Integrals With Regular Kernel of Cauchy Type

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol. 24, No.6, pp. 1114-1122

TEXT: The author considers the approximative evaluation of the integrals

$$(0.1) G(x) = \frac{1}{7} \int_{-1}^{1} \frac{f(t)}{t-x} dt, E(x) = \frac{\sqrt{\frac{2}{x^{2}-1}}}{\sqrt{1-t}} \int_{-1}^{1} \frac{f(t)}{t-x} \sqrt{\frac{dt}{1-t^{2}}} (1 \le x \le \infty).$$

Let f (s)(t) be defined by

(3.1)
$$f^{(s)}(t) = (\frac{d^s}{d\theta^s})f(\cos\theta))_{\theta = \text{arc cos } t}$$
 (s = 0,1,...).

Let $W_{g}^{(2k)}(M_{2k}; -1,1)$ be the class of the functions which satisfy the following conditions: Card 1/9

88765 s/040/60/024/006/019/024 C 111/ C 333

On the Calculation of Some Integrals With Regular Kernel of Cauchy Type

1. There exist $f^{(s)}(t)$, s = 0,1,..., (2k-1) on [-1,1] except in the point t = 0.

2. (3.2) $|f^{(2k)}(t)| \le \mathbb{1}_{2k}$

3. (3.3)
$$2^{(s)} = f^{(s)}(+0) - f^{(s)}(-0)$$
 for $s = 0, 1, 2, ...$ (2k-1).

The following notations are introduced

(3.4)
$$2 \chi_1^{(s)} = f^{(s)}(1) + f^{(s)}(-1), 2 \chi_2^{(s)} = f^{(s)}(1) - f^{(s)}(-1)$$

$$(s = 0, 1, ..., 2k)$$

$$(3.5)$$
 $a_1^* = a_1$, $a_2^* = a_2$; $b_1^* = b_1$, $b_2^* = b_2$

Card 2/9

S/040/60/024/006/019/024 C 111/ C 333 Type

On the Calculation of Some Integrals With Regular Kernel of Cauchy $c_{2m} = c_{2m} + \frac{4}{\pi} \sum_{i=1}^{2} \frac{(-1)^{i}}{(2m)^{2i}} ((-1)^{m} (^{(2m-1)} - \tau_{1}^{(2m-1)})$ $c_{2m-1} = c_{2m-1} - \frac{4}{\pi} \sum_{i=1}^{2} \frac{(-1)^{i}}{(2m-1)^{2i}} ((-1)^{m} (2m-1)^{2(n-1)} + \tau_{1}^{(2n-1)})$ $b_{2m} = b_{2m-1} - \frac{4}{\pi} \sum_{i=1}^{2} \frac{(-1)^{i}}{(2m)^{2m-1}} ((-1)^{m} \tau^{2(n-1)} - \tau_{2}^{2(n-1)})$ $b_{2m-1} = b_{2m-1} - \frac{4}{\pi} \sum_{i=1}^{2} \frac{(-1)^{i}}{(2m-1)^{2i}} ((-1)^{m} \tau^{2(n-1)} - (2m-1)^{2(n-1)})$ (3.6) $(3.7) \quad N(n,k) = 4(n+1)^{-2k} (1 + \ln \frac{37}{2} + \frac{1}{2k} + \frac{1}{2n} + \ln n),$ Card 3/9

| 在中央社会的企业工作。 17. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10 | 30 |
|--|------|
| | 35 |
| On the Calculation of Some Integrals With Regular Kernel of Cauchy Type | |
| where a_n , b_n are given by | 40 - |
| (1.5) $a_n = \frac{2}{\pi} \int_{-1}^{1} f(t) T_n(t) \frac{dt}{\sqrt{1-t^2}}, b_n = \frac{2}{\pi} \int_{-1}^{1} f(t) U_n(t) \frac{dt}{\sqrt{1-t^2}}$ | 45 |
| | |
| (1.1) $T_n(t) = \cos n \arccos t$, $U_n(t) = \sin n \arccos t$. | |
| The main result of the paper is the theorem 3: Let $f(t) \in W_{2k}^{(2k)}$ (M _{2k} ; -1,1). Then | 50 |
| $G_{n}^{(1)} = G_{n}^{(1)}(x) = \frac{A}{\pi} \sum_{i=1}^{k} (-1)^{n} \left(T_{1}^{(2)} + T_{1}^{(2)} M_{1}^{(2)} + T_{1}^{(2)} M_{2}^{(2)} + T_{1}^{(2)} M_{2}^{(2)} \right) = -1$ | |
| 수도 있는 그는 그는 그는 이 이 가는 이 것이 함께 빠른 그런 있는 것 같아 있다. 그렇게 되는 것 같아 나는 사람이 살았다. | 55 |
| $-\gamma^{(2\alpha-1)}N_1^{(2\alpha)}(\pi^{\alpha}) - \gamma^{2(\alpha-1)}N_1^{(2\alpha-1)}(\pi^{\alpha})] \xrightarrow{\text{in } T} \sum_{i=1}^{n} \sum_{m=1}^{n} \pi^{m+1} \text{ in } T_{i+1}^{(\alpha,1)} $ | |
| Card 4/9 | |

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S/040/60/024/006/019/024 C 111/ C 333

On the Calculation of Some Integrals With Regular Kernel of Cauchy Type

$$B(s) \approx B_{n}^{(k)}(s) = \frac{4}{\pi} \sum_{s=1}^{k} \frac{(-1)^{s-1} \left[\gamma_{1}^{(ss-1)} M_{1}^{(sp)}(x^{ss}) + \gamma_{2}^{(ss-1)} M_{3}^{(sp)}(x^{ss}) + \gamma_{3}^{(ss-1)} M_{3}^{(sp)}(x^{ss}) + \gamma_{3}^{(ss-1)} M_{3}^{(ss-1)}(x^{ss}) - \gamma_{3}^{(ss-1)} M_{3}^{(sp)}(x^{ss}) \right] - \frac{a_{0}}{2} - \sum_{s=1}^{n} a_{m}^{s} s^{ss}$$

$$(4.2)$$

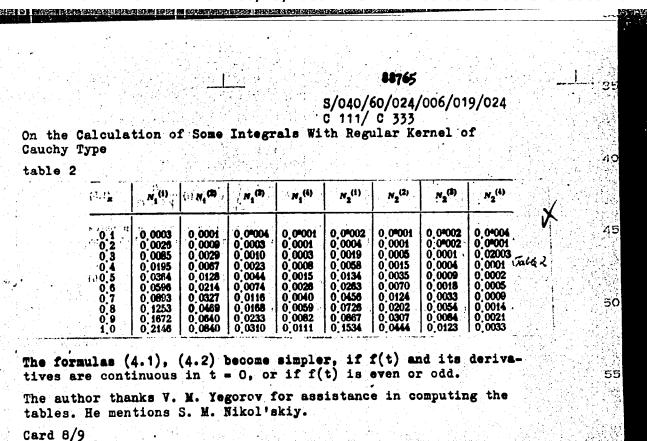
where it holds the estimation

$$(4.3) |G(x) - G_n^{(k)}(x)| < 2M_{2k}N(n,k), |E(x) - E_n^{(k)}(x)| < 2M_{2k}N(n,k)$$
Here $x = x - \sqrt{x^2 - 1}$, $1 \le x \le \infty$. The functions $M_1^{(s)}$, $M_2^{(s)}$, $N_1^{(s)}$, $N_2^{(s)}$ are defined by

Card 5/9

| | | | | | C 111 | 88765 /60/024/000 / C 333 | | | |
|----------------|-----------------------|---|-----------------|-------------------------------------|---|--|---------|-----|---|
| On the Type | | | | | | ular Kerne | | ;hy | 4 |
| | $M_1^{(\delta)}(x) =$ | $\sum_{n=2}^{\infty} \frac{1}{(2n-1)^n}$ | _ 31 7—1 | M ₂ ^(a) (z) = | $\sum_{n=2}^{\infty} \frac{1}{(2n)^n} z^{2n}.$ | $ \begin{pmatrix} 0 < s < 1 \\ s = 1, 2, \dots \\ 0 < s < 1 \\ s = 1, 2, \dots $ |) (2.1) | Χ | |
| | $N_1^{(s)}(x) =$ | $\sum_{n=1}^{\infty} \frac{(-1)^n}{(2n-1)}$ | 1n-1, | N ₃ ^(a) (x) = | $=\sum_{n=0}^{\infty}\frac{(-1)^n}{(2n)^n}x^{2n}$ | 0 < z < 1 z = 1, 2, |) (2.2) | | |
| | | | | | | | | | |
| Moreov | ver, the | followi | ng tab] | les are | given | | | | |
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| Card (| 5/a | | | | | | | | |

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| 0.1 0.0008 0.0004 0.0004 0.00002 0.00002 0.00002 0.00004 0.0003 0.00002 0.00004 0.0003 0.00002 0.00004 0.0003 0.00002 0.00004 0.0003 0.00002 0.00004 0.0003 0.00002 0.00004 0.0003 0.00002 0.00004 0.0003 0.00002 0.00004 0.0003 0.00004 0.0003 0.00004 0.0003 0.00004 0.0003 0.00004 0.0003 0.00004 0.0003 0.0004 0.0 | 0.1 0.0008 0.0004 0.0004 0.0002 0.0001 0.0002 0.0004 0.0003 0.0004 0.0003 0.0002 0.00004 0.0003 0.0004 0.0003 0.00004 0.0003 0.00002 0.00001 0.00001 0.00001 0.0000 0.0001 0.0001 |
| 0.9 . 0.5722 0.1259 0.0341 0.0102 0.4254 0.0713 0.0143 0.0031 1.0 \(\infty \) 0.2337 0.0518 0.0147 \(\infty \) \(\infty \) 0.1612 0.0253 0.0051 | |



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S/040/60/024/006/019/024 C 111/ C 333

On the Calculation of Some Integrals With Regular Kernel of Cauchy Type

There are 2 tables, and 5 Soviet references.

ASSOCIATION: Institut gidrodinamiki Sib. otd. AN SSSR (Institute of Hydrodynamics of the Siberian Department of the Academy of Sciences USSR)

SUBMITTED: April 15, 1960

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Card 9/9

SOV/124-58-11-12550

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 86 (USSR)

Gurevich, M. I., Pykhteyev, G. N.

On Some Methods of the Solution of Theoretical Problems Concerning AUTHORS: TITLE:

a Heavy Liquid Jet (O nekotorykh metodakh resheniya zadach teorii

struy tyazheloy zhidkosti)

PERIODICAL: Tr. Mosk, tekhn. in-ta rybn. prom-sti i kh-va, 1957, Nr 8,

pp 48-65

Presentation of a paper by Marchi (Marchi, Enrico, Ann. mat. pura ed appl., 1953, Vol 35, pp 327-341; RZhMekh, 1955, Nr 1, abstract ABSTRACT:

154), together with a description of the Woronetz method (Woronetz, Constantin, C. r. Acad. Sci., 1953, Vol 236, Nr 3, pp 271-273; RZh. Mekh, 1953, Nrl. abstract 144). The authors adduce a solution of the Marchi problem by means of the Woronetz method. A detailed computation is given for a single case, which shows an almost identical coincidence of the numerical results obtained by the Marchi method and the Woronetz method. This is followed by a brief explanation of the well-known solution by N. Ye. Kochin relative to the flow of a

heavy liquid through a spillway outlet. Thereupon the same problem

Card 1/2

SOV/124-58-11-12550

> On Some Method of the Solution of Theoretical Problems Concerning a Heavy Liquid

is solved by the Marchi and Woronetz methods. It is shown that these approximate methods for the solution of the exact problem yield a rougher approximation than the exact solution of the linearized problem set forth by N. Ye. Kochin. The mean depth at infinity obtained by the Marchi method coincides with N. Ye. Kochin's result. The Woronetz method yields a less accurate result.

N. N. Moiseyev

Card 2/2

PYKHTIN, P.; SURKOV, B.

Retreading tires. Avt.transp. 38 no.6:27 Je '60. (MIRA 14:4)

1. Saratovskiy avtotrest. (Motor vehicles—Tires)

PYKHTIN; P.; SURKOV, B.

Liquified gas as fuel for motor vehicles. Avt. transp. 38 no. 5:54
My '60.

1. Saratovskiy avtotrest.
(Motor vehicles—Engines (Compressed gas)

PYKHTIN, V.Ya., aspirant

Problems in the fuel supply of rural areas. Nauch. trudy MGI no.43:35-44. 162. (NIRA 16:9)

50V/147-59-2-18/20 Pykhtin, Yurk, and Ronzin, V.D. (Perm') Measurement of Temperature Stresses (Izmereniye PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Aviatsionnaya AUTHORS: The development and testing of an experimental method of measuring thermal stresses with the aid of temperature-compensated wire tensometers (nichrome constantine, nichrome being a nickel, chromium, iron alloy) in the temperature range from 0 to 180 C are reported. reported. Temperature-compensated tensometers (see reported.) are tensometers made of two wires having and and an are tensometers made of different sign ABSTRACT: temperature resistance coefficients of different sign and joined in series in the grid of the tensometer. Testing was carried out by employing a system whose temperature field and stresses resulting from it are known exactly. This consisted of a steel disc with a known exactly. This consisted of a steel disc with a central hole of radius ro and of a constant (constant the disc was heated along its outer periphery temperature) and cooled along the central hole (constant temperature) and cooled along the central hole Card 1/3

sov/147-59-2-18/20

Measurement of Temperature Stresses

temperature) as shown in Fig 2, where: 1 - disc; 2 - ceramic coating; 3 - heating element; 4 - asbestos; 5 - brick; 6 - stopper. Distribution of temperature in the disc was measured by two different methods: thermo-couples and the above tensometers (which were arranged in radial and circumferential directions) as shown in Fig 1. As shown in Ref 1, the radial and tangential stresses for such a disc are given by Eq (1), the constants of integration being given by Eq (2) and (3) for which the temperature distribution t = f(r) must be determined experimentally. For the above disc it is shown in Fig 4, which is nearly a linear function. Table 1 gives the radial and tangential strains as found by these tensometers, from which by Eq (10) and (11) the stresses can be computed. The results are shown in Fig 5, the curve being the theoretical values and the points being the experimental values.

Card 2/3

sov/147-59-2-18/20

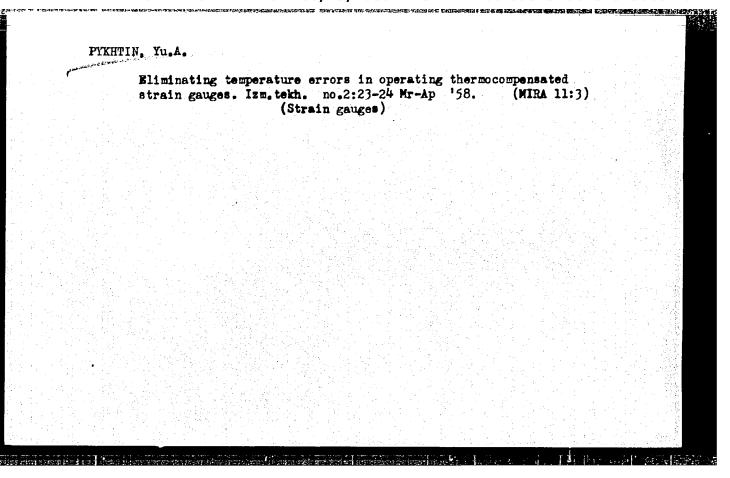
Measurement of Temperature Stresses

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Agreement is completely satisfactory. There are 5 figures, 1 table and 4 Soviet references.

SUBMITTED: December 29, 1958

Card 3/3



BABICHEV, V.A., dots.; PYKHTINA, A.A., dots.; KOVALEV, I.Ye., assistent; LAKIN, K.M., assistent; TOLVINSKAYA, L.S., assistent; SAPEZHINSKAYA, N.V., assistent; SERGEYEV, P.V., assistent; VASIL!YEVA, V.V., doktor med. nauk, prof., red.; VISHNEVETSKAYA, L.B., tekhn. red.

AINTELIK DEUR PARTELIKA BELIANTRIAN ERANGERIAN BERIANGAN BELIANGAN BERIANGAN BERIANGAN

[Laboratory manual in pharmacology and general prescription writing] Rukovodstvo k prakticheskim zaniatiiam po farmakologii i obshchei retsepture. Moskva, 1962. 79 p. (MIRA 16:4)

1. Moscow. Vtoroy Moskovskiy meditsinskiy institut.
(PHARMACOLOGY—LABORATORY MANUALS)
(PRESCRIPTION WRITING)

PYKHTINA, A. A., Physician

"The Comparative Action on an Organism of Papaverine, Neutralized Nicotinic Acid, and Pilocarpine, Taking Into Account the Effect on the Peripheral Receptor Apparatus." Sub 25 Jun 51, Second Moscow State Medical Inst imeni I. V. Stalin.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

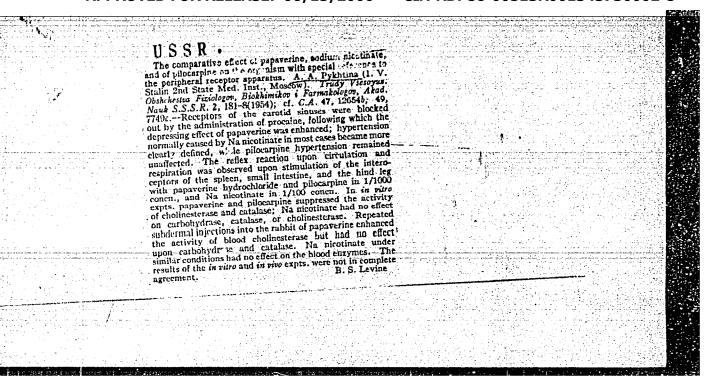
* CANd. MELICAL Sei.

PYKHTINA A A SKYCRTSOV, V.I., professor, deysvitel'nyy chlen Akademii meditsinskikh nauk SSSR, zaveduyushchiy.

中心的一种,我们们就是一个。 一个时间,我们们就是一个时间的一个时间,我们们就是一个时间的一个时间,我们们们们就是一个时间,我就是一个时间的时候,我们们们们们们

Effect of papaverine, sodium nicotinate and pilocarpine upon the interoceptors of the spleen, small intestine and cauda. Farm.i toks. 16 no.3:
12-14 My-Je '53. (NLRA 6:7)

1. Kafedra farmakologii II Moskovskogo meditsinskogo instituta imeni I.V. Stalina. 2. Akademiya meditsinskikh nauk SSSR (for Skvortsov). (Nervous system) (Papaverine) (Pilocarpine)



PKHTIVA. A.A. USSR/Medicine - Pharmacology

FD-1909

Card 1/1

Pub. 38-8/18

Author

Pykhtina, A.

Title

Analysing the action of papaverine

Periodical: Farm. i. toks., 17, 33-36, Nov/Dec 1954

Abstract

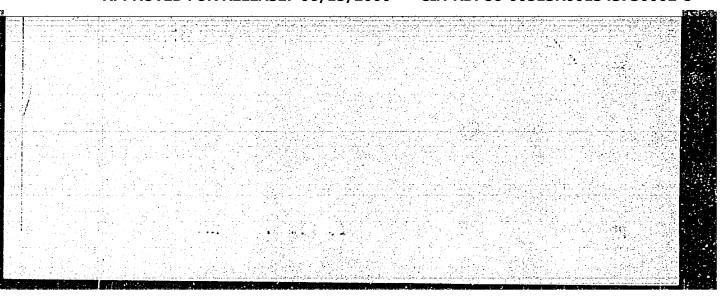
: Investigated the effect of papaverine on the nervous system. Papaverine was introduced to the blood stream and the resultant effects on the blood vessels of the isolated spleen, small intestine, and anus were observed. A vascular contraction was noted as a result of the action of papaverine on the central and peripheral nerve mechanisms. A dose of one milligram of papaverine per kilogram weight of animal caused a drop in blood pressure and a vascular contraction in the above isolated organs. 0.5 milligrams per kilogram caused only a drop in the total blood pressure of the entire organism. Three graphs; eight references (six since 1940, seven

USSR).

Chair of Pharmacology (Head - Acting Member Acad Med Sci USSR V. I.

Skvortsov II Moscow Medical Inst imeni I. V. Stalin

Submitted:



CIA-RDP86-00513R001343730002-8 "APPROVED FOR RELEASE: 06/15/2000

PYKHTINA, A.A.
USSR / Pharmacology, Toxicology, Cardiovascular Agents

U-6

Abs Jour

: Referat Zh.-Biol., No 1, 1958, No 3512

Author

: Pykhtina, A.A.

Inst

: Not given

Title

: The Combined Use of Papaverine with Tiphen, Dibasol and

Salsolin.

V19 cuppliment

Orig Pub

: Farmakol. i toksikologiya 1956(1957).

Abstract:

: Cats anesthetized with urethan received intravenous injections of papaverine (1 mg/kg), tiphen, dibasol (1-2 mg/kg), and salsolin (10 mg/kg). Papaverine lowered the blood pressure by 14-38 mm of Hg, tiphen by 6-20 mm, and simultaneous administration of papaverine with tiphen by 42-76 mm. Papaverine caused a blood pressure depression of 3-14 min duration, dibasol of 2-5 min duration, and a combined

card 1/2 Chr. Pharmacology. 202 proser State Medical Inch in 1. V. Stalen)

USSR / Pharmacology, Toxicology, Cardiovascualr Agents.

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U-6

Abs Jour

: Referat 2h.-Biol., No 1, 1958, No 3512

Abstract

papaverine - dibasol injection resulted in a B.P. lowering lasting for 10-27 min. Salsolin caused hypotension in 48 sec-8 min and a papaverine - salsolin combination in 5-20 min. Some experiments were performed on animals with hypertension caused by an intravenous injection of pituitrin (1 ml.3 kg). Papaverine with tiphen, under normal conditions, lowered the blood pressure by 34-56 mm of Hg and, in hypertension, by 42-62 mm of Hg for a shorter time. The papaverine-dibasol combination had the same effect in normal and hypertensive animals. Papaverine with salsolin caused a B.P. depression of 42-62 mm under normal conditions, and of 56-80 mm after pituitrin.

Card 2/2

TOMILINA, T.N.; foskalteko, A.N.; Malygina, Ye.i.; Igea. Yeva, M.A.; Anichkov, S.V., prof., red.; Fykhtika, A.A., red.

[Practical work in pharmacology] Fraktikum po farmakologiii. Moskva, Meditsina, 1965. 189 p. (Mika 18:2)

1. Peystvitel'nyy chlen AMN SSSR (for Anichkov).

PYKHTINA, A.A.

REPORTED TO THE CONTRACT OF THE PROPERTY OF TH

Effect of papaverine, tiphen and dibazol on the ascending reticular formation of the brainstem. Farm. i toks. 28 no.5:524-527 S-0 65. (MIRA 18:12)

1. Kafedra farmakologii (zav. - rrof. V.V.Vasil'yeva) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova. Submitted July 18, 1964.

PYKHTINA, A.A.

Effect of papaverine, tiphen, and dibacole on the level of sympathemimetic amines and the activity of cholinesterase in the blood of dogs with experimental renal hypertension. Farm.i toks. 28 no.6:719-722 N-D 165. (MIRA 19:1)

1. Kafedra farmakologii (zav. - prof. V.V.Vasil'yava) II Moskovskogo meditsinskogo instituta imeni Piregova.

| ACC NR: AP6034259 (N) SOURCE CODE: UR/0390/66/029/005/0546/0548 | • |
|---|---|
| AUTHOR: Pykhting, A. A. | |
| ORG: Department of Pharmacology / Head-Prof. M. F. Merkylov/, Second Moscow Medical Institute im. N. I. Pirogova (Kafedra farmakologii Vtoroy moskovskogo meditsinskogo instituta) | |
| TITLE: Effect of dibazol (2-benzyl-benzimidazole) on the level of sympathomimetic amines in the organs of albino rats | |
| SOURCE: Farmakologiya i toksikologiya, v. 29, no. 5, 1966, 546-548 | |
| TOPIC TAGS: pharmacology, drug effect, RAT, BENZENE DERIVATIVE | |
| ABSTRACT: Dibazol (10 mg/kg) was given to white rats both in single doses and doses administered over a ten day period. Animals showed signs of illness within thirty minutes after injections. Examination of tissues and organs showed that single injections of the compound causes an increase in the concentration of sympathomimetic amines. This level drops during the course of daily injections of the compound. Orig. art. has: 2 figures. | |
| SUB CODE: 06/ SURM DATE: 25Sep65/ ORIG REF: 004/ OTH REF: 001 | |
| Card 1/1 UDC: 615.717-015.25:615.711.7 | |
| | |

L 31422-66 64F(1) =>
ACC NR: AP602131h (N) SOURCE CODE: UR/0390/65/028/005/0524/0527

AUTHOR: Pykhtina, A. A.

ORG: Department of Pharmacology /headed by Prof. V. V. Vasil'yeva/, Second Moscow Medical Institute im. N. I. Pirogoy (Kafedra farmakologii II Moskovskogo moditsinskogo instituta)

TITIE: Effect of papaverine, thiphen, and dibazol on the ascending reticular formation of the brain stem

SOURCE: Farmakologiya i toksikologiya, v. 28, no. 5, 1965, 524-527

TOPIC TAGS: brain, rabbit, pharmacology, nervous system drug

ABSTRACT: The effect of hypotensive substances (papaverine, thipen, and dibazol) on the underlying sections of the brain, particularly on the reticular formation of the brain stem, was studied. Pain stimulation of the hind leg of a rabbit provokes the reaction of activation in the biocurrents of the brain cortex. It was established by the experiments conducted that the intravenous injection of papaverine, thipen or dibazol in a 5 mg/kg dose to urethanized rabbits weakens or prevents the activation reaction in the brain cortex which occurs during the temperature irritation of the hind leg. This depressing effect can be associated with the reticular formation of the brain stem by the above substances. Orig. art. has: 3 figures. IPRS

SUB CODE: 06 / SUBM DATE: 18Jul64 / ORIG REF: 006 / OTH REF: 001

7.L r\r bra

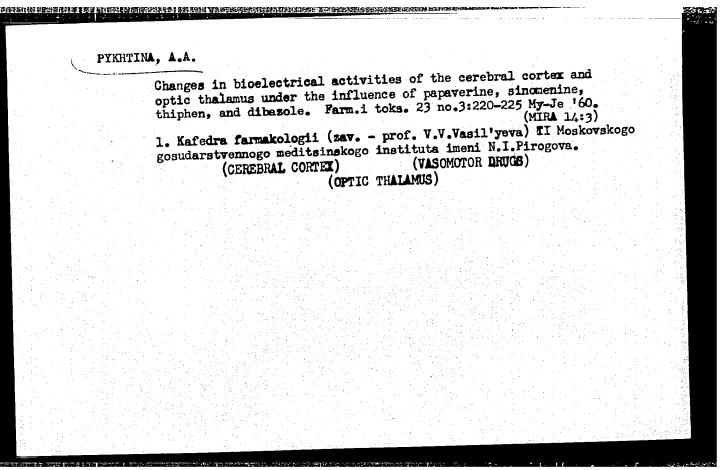
UDC: 615.717+615.783.1/-092.259:612.82

PYKHTINA, A.A.

Comparative effect of papaverine, sinomenine, tiphen, and dibuzol on the bioelectric activity and contraction range of the heart. Farm. i toks. 25 no.6:711-716 N-D '62.

(MIRA 17:8)

1. Kafedra farmakologii (zav. - prof. V.V. Vasil'yeva) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.



SERENKO, A.S., STANISLAVSKIY, YA.M., KHAZAN, G.L., KHIZHNYAKOVA, L.N.,
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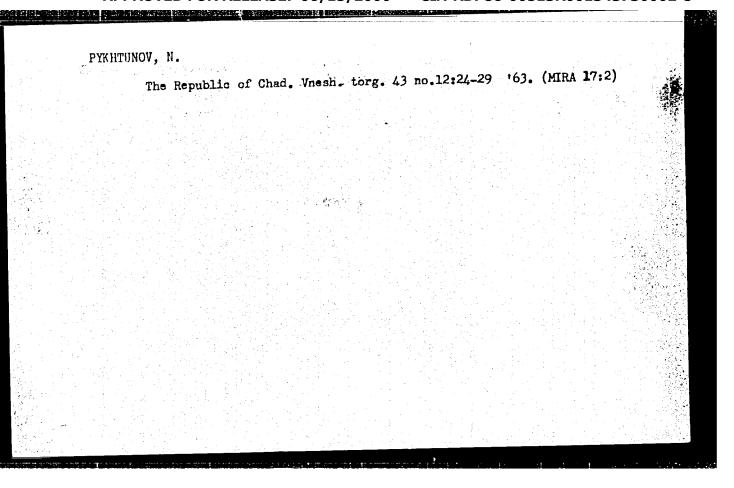
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| and a | V, N. | | | | | | | |
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| | (GabonEcono | mic conditions) | (GabonCommerce) | | |
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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343730002-8"

